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employed, in this work, was a modification of that described by Bruce. The insect used was the adults of the common housefly which have been bred in the laboratory. The materials adopted were allethrin, pyrethrins, chlordane, dieldrin, DDT, lindane, *o*-dichlorobenzene, and sulfoxide, and each of these was formulated in kerosene or xylene solutions. In the tests, kerosene or xylene solutions containing a given concentration of the materials were applied at a rate of 0.2cc per 20 square cm filter paper. The impregnated filter papers were kept at 28° for various time. After a given time had elapsed, about 50mg of lactose pellet was placed in the center of each paper, these papers with pellets were put into a glazed test box containing about 120 houseflies.

The criterion of repellency was based on the amount of feeding on lactose pellet put on each paper. After the exposure of 20 hours the lactose pellets were removed and weighed. The amount of feeding (mg) obtained were presented by formulae as mentioned above.

In laboratory tests it was noted that pyrethrins and allethrin were markedly more effective than the other materials. These materials prevented flies from feeding on lactose pellet for 3 days. Other chlorine compounds, except *o*-dichlorobenzene, gave moderate effectiveness in repelling houseflies. Although *o*-dichlorobenzene was tested in the work, it was less effective against houseflies.

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